



PRODUCT BROCHURE · YAMATO SCIENTIFIC

BO302A 312A Oil Bath

2 models inside · Thermal Processing · Temperature Control Baths



QUICK VIEW — SERIES AT A GLANCE

2 models in this document from Yamato Scientific. Full specifications inside.

MODELS IN THIS DOCUMENT

BM-312A · BO-312A

SHIP WEIGHT

10 lb

VOLTAGE

200–230V, 5–6 A (115V = BM302A)

SOURCING

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Economy Constant Temperature Oil Bath



BO302-A/312-A

Operating temp. range Room temp. +10~180°C

Bath capacity 5L

Compatible with RE202-A/212-A REV-202M-A/212M-A

BO302-A shown with rotary evaporator REV202MA



- Large capacity 5L with $\phi 240$ mm ID
- Flat-shaped bath with no heater or sensor inside makes for ease in cleaning
- Full range of safety functions such as automatic overheat prevention, upper temperature limit abnormality, and independent overheat prevention (fixed temperature type)



Specifications

Model	BO302-A		BO312-A
Performance ^{*1}	Operating ambient temp. range	5~35°C	
	Temperature control range	Room temp. +10~180°C	
	Temperature control accuracy	± 2.0°C	
Configuration	Temperature control system	PID control	
	Controller	White LED digital display, key entry, minimum digit of 1°C	
	Temperature sensor	Pt100Ω	
	Heater	1000W aluminum sheathed heater	
	Exterior	PBT (with fiber glass)	
	Bath reservoir	Stainless steel	
Safety functions		Automatic overheat prevention, independent overheat prevention (fixed temp.), temperature upper limit error, Overcurrent protection fuse	
Other functions		Overshoot alert, Auto resume (selectable), 2A service outlet, calibration offset	
Standard	External dimensions ^{*2}	$\phi 262$ (max. D286) x H240 mm	
	Reservoir capacity	~5L	
	Power supply (fuse capacity)	100-115V, 10-12A (Service outlet excluded) (15A)	200-230V, 5 6A (10 A)
	Power cable	3m long, with inlet plug ^{*3}	
	Weight	~4.5 kg	
Accessories		Power cable (1), Spare fuse for main power 15A (large)(1), Spare fuse for service outlet 2A (small)(1),	Power cable (1), Spare fuse for main power 10A (large)(1)

^{*1} Performance data above based on 95-120VAC (BO302)/ 90-241 VAC (BO312) supplied power, 23 ±5 °C room temperature, 65%RH ±20% humidity, and no process load. Operating temperature range for BM/BO series unit is between 5°C and 35°C. Be advised that maximum operating temperature may not be reached under low ambient temperatures, if source voltage is below 95V (BO302)/190V (BO312)

^{*2} Dimensions do not include protrusions.

^{*3} BO302 is compatible with the voltage range of 100-115VAC and BO312 is compatible with the voltage range of 200-230VAC, by choosing a suitable power plug.

Control Panel



Optional accessory

BC102 Bath Protection Cover

